

AMENDMENTS TO THE CLAIMS

1. (original): A recombinant polyketide synthase gene that encodes a loading module comprising a KSQ domain, an AT specific for ethylmalonyl CoA, and an ACP domain.
2. (original): A host cell that comprises the recombinant polyketide synthase gene of Claim 1, wherein said host cell further comprises a recombinant gene selected from the group consisting of recombinant *ccr* and *icm* genes.
3. (withdrawn): A method for the production of 14,15-propenylerythromycin and/or the corresponding 14,15-propenyl-6-deoxyerythronolide B, which comprises culturing a recombinant host cell that expresses isobutyryl CoA mutase, valine dehydrogenase, butyryl CoA dehydrogenase, and 6-deoxyerythronolide polyketide synthase.
4. (withdrawn): The method of Claim 3, wherein said host cell is a *Saccharopolyspora erythraea* host cell.
5. (withdrawn): The method of Claim 4, wherein said host cell does not express a functional *eryM* gene product.
6. (withdrawn): The method of Claim 3, wherein said butyryl CoA dehydrogenase is expressed from a gene isolated from *Clostridium acetobutylicum* or *Mycobacterium tuberculosis* (*fadE25*).